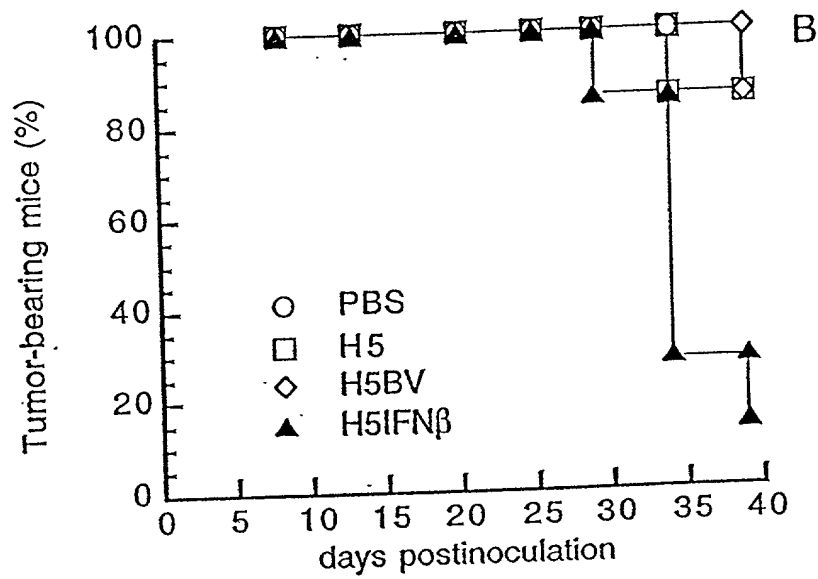


C3H/HeN
UV2237m fibrosarcoma s.c.
1x10⁶ H5 cells/100μl saline

FIG. 1



C3H/HeN
 UV2237m fibrosarcoma s.c.
 1×10^6 H5 cells/100 μ l saline

FIG. 2

101550-372860

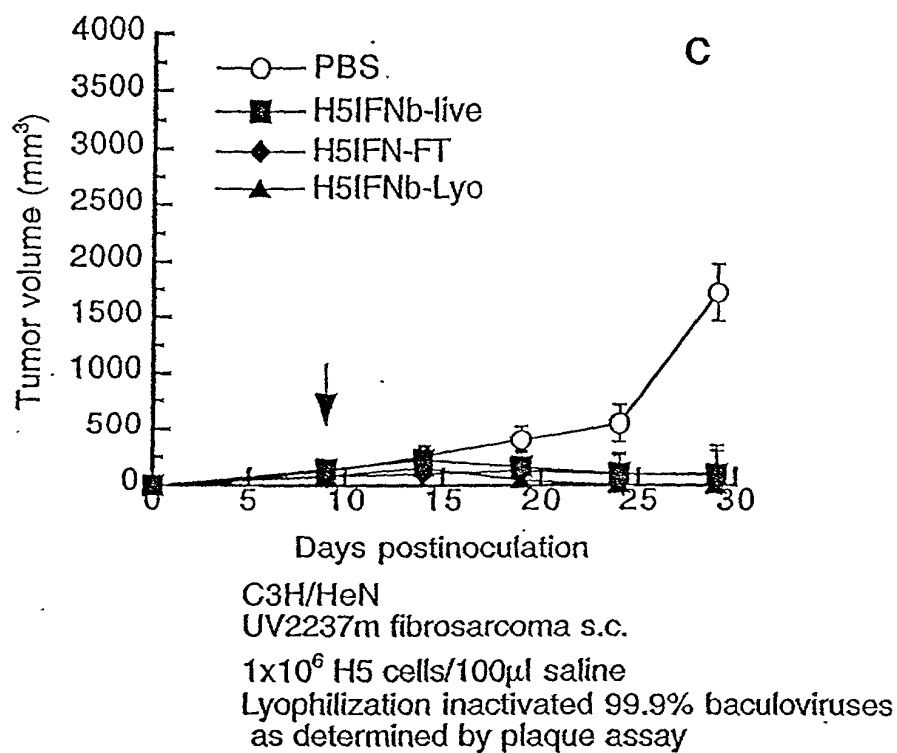
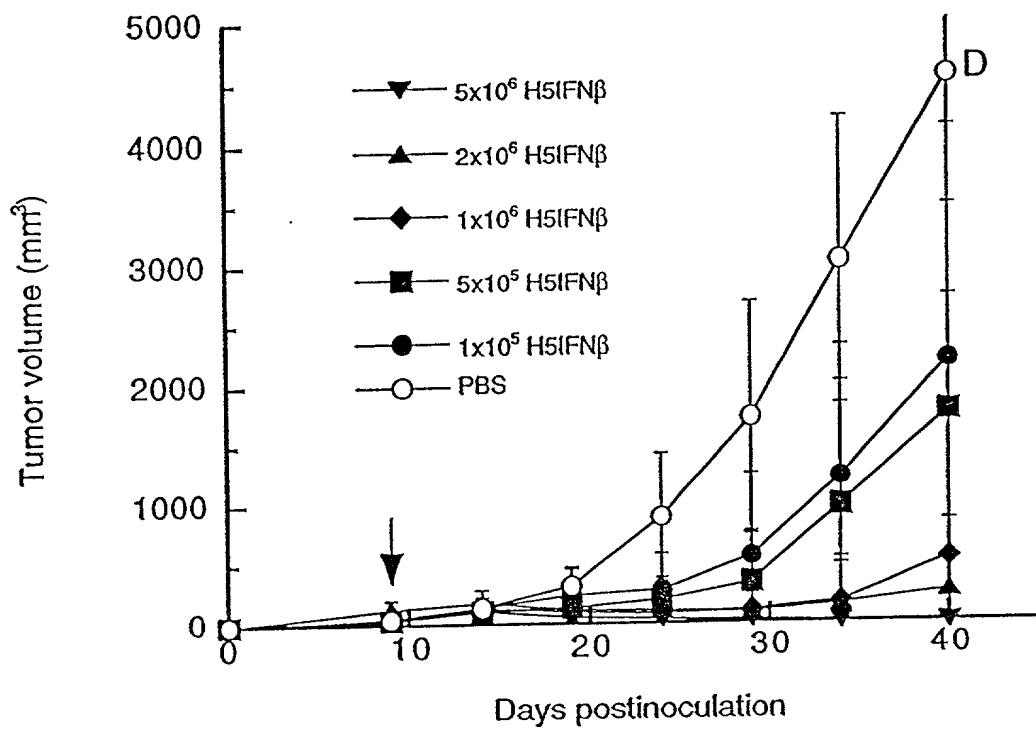
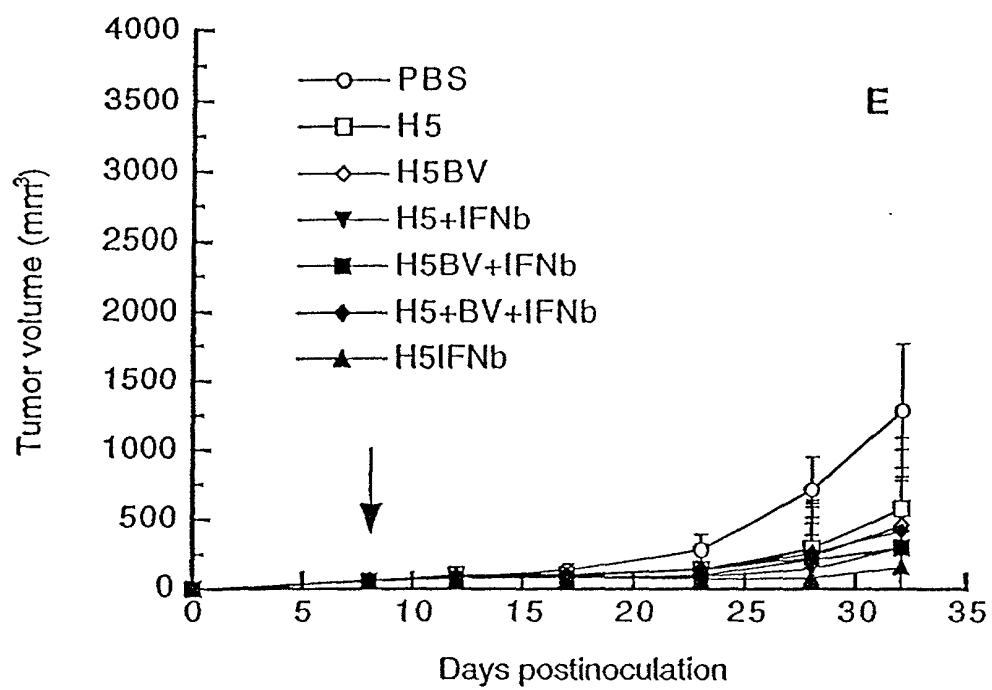


FIG. 3



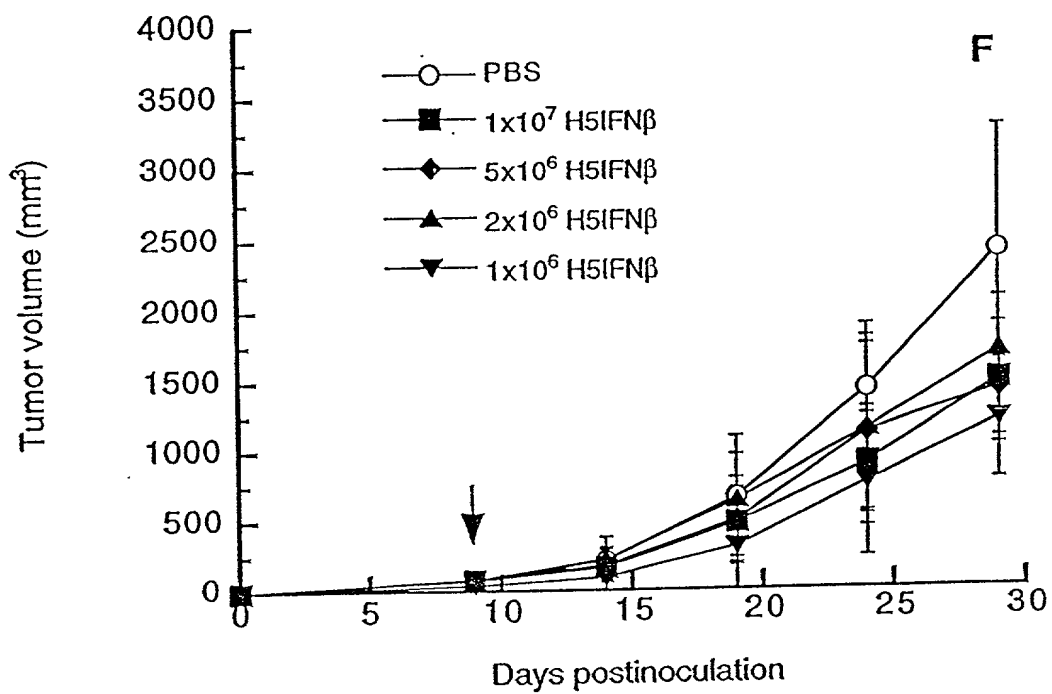
C3H/HeN
 UV2237m fibrosarcoma s.c.
 H5IFN-b lysate in 100 μ l saline

FIG. 4



C3H/HeN
 UV2237m fibrosarcoma s.c.
 2×10^6 H5 cell lysate/100 μ l saline

FIG. 5



BALB/C Nude
 UV2237m fibrosarcoma s.c.
 H5IFN- β cell lysate/100 μ l saline

FIG. 6

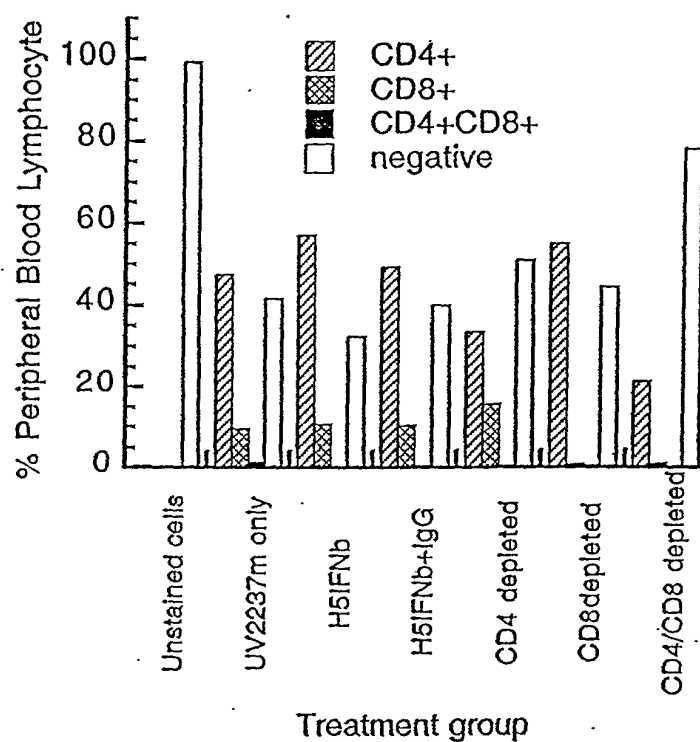
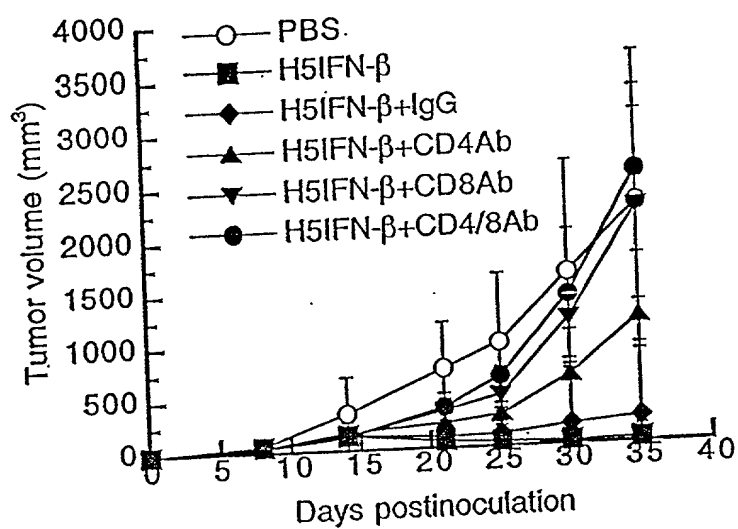


FIG. 7



C3H/HeN
UV2237m fibrosarcoma s.c.
H5IFN-β cell lysate/100μl saline

FIG. 8

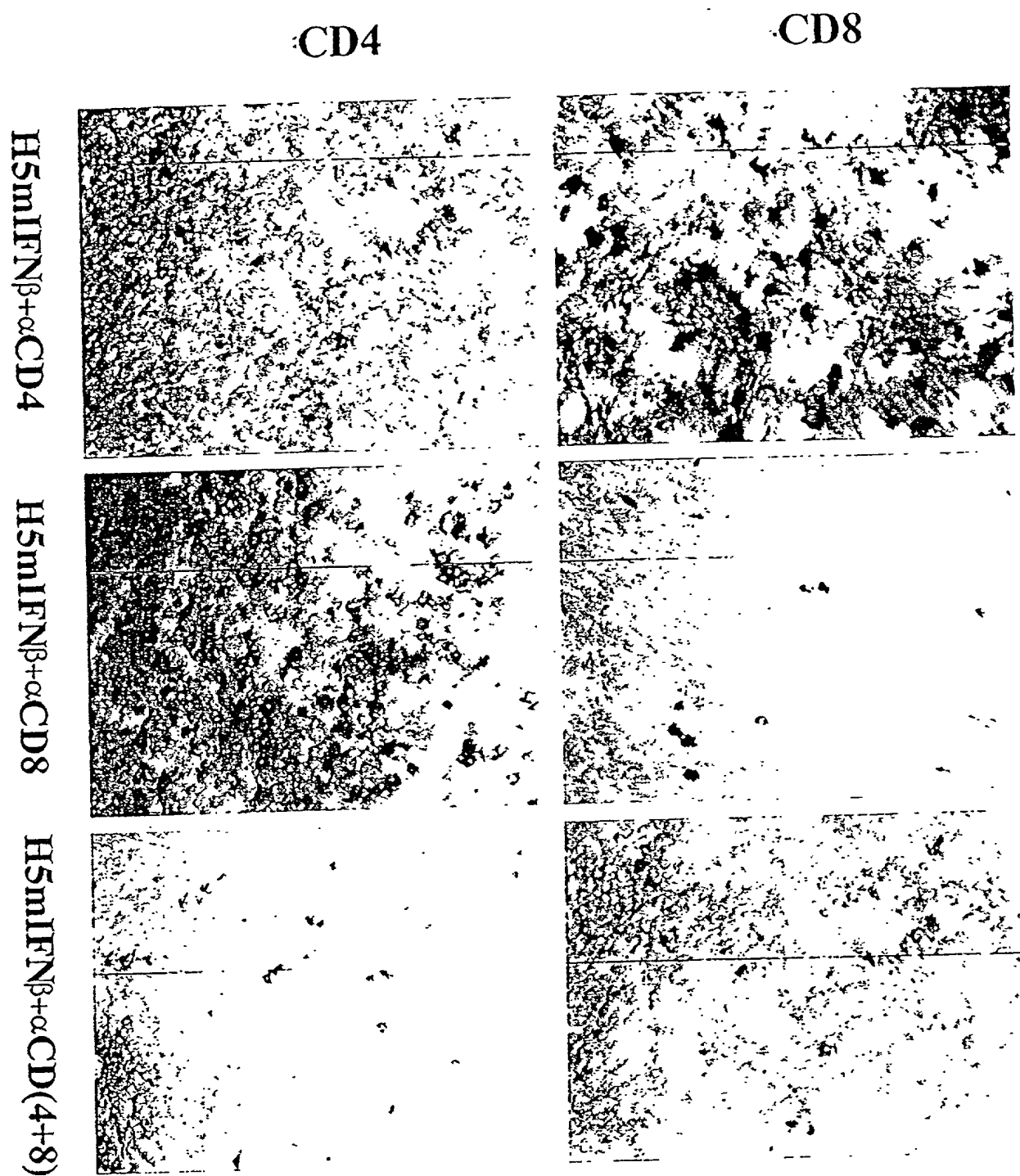


FIG. 9

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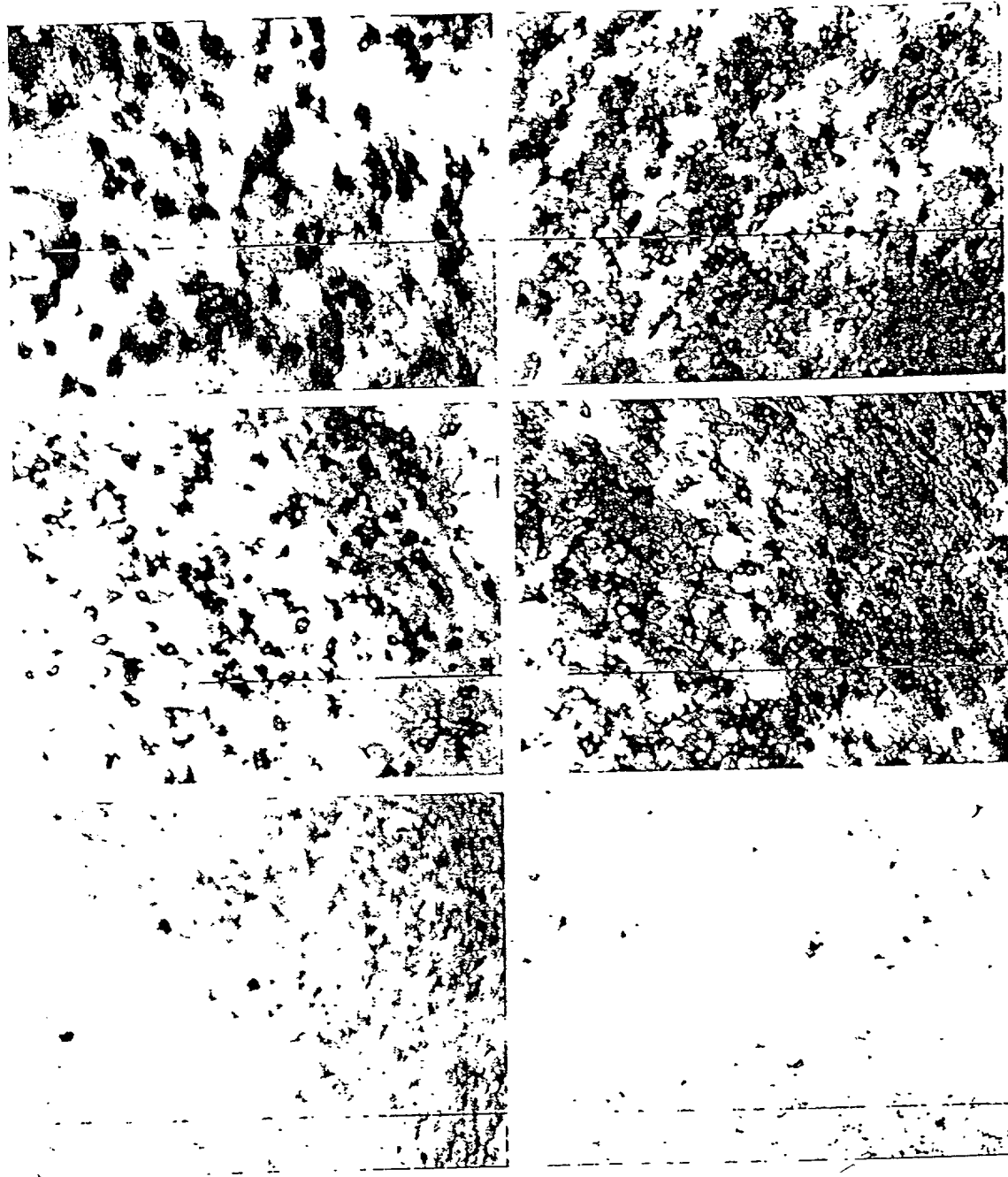


FIG. 10

CTR

H5mIFNβ

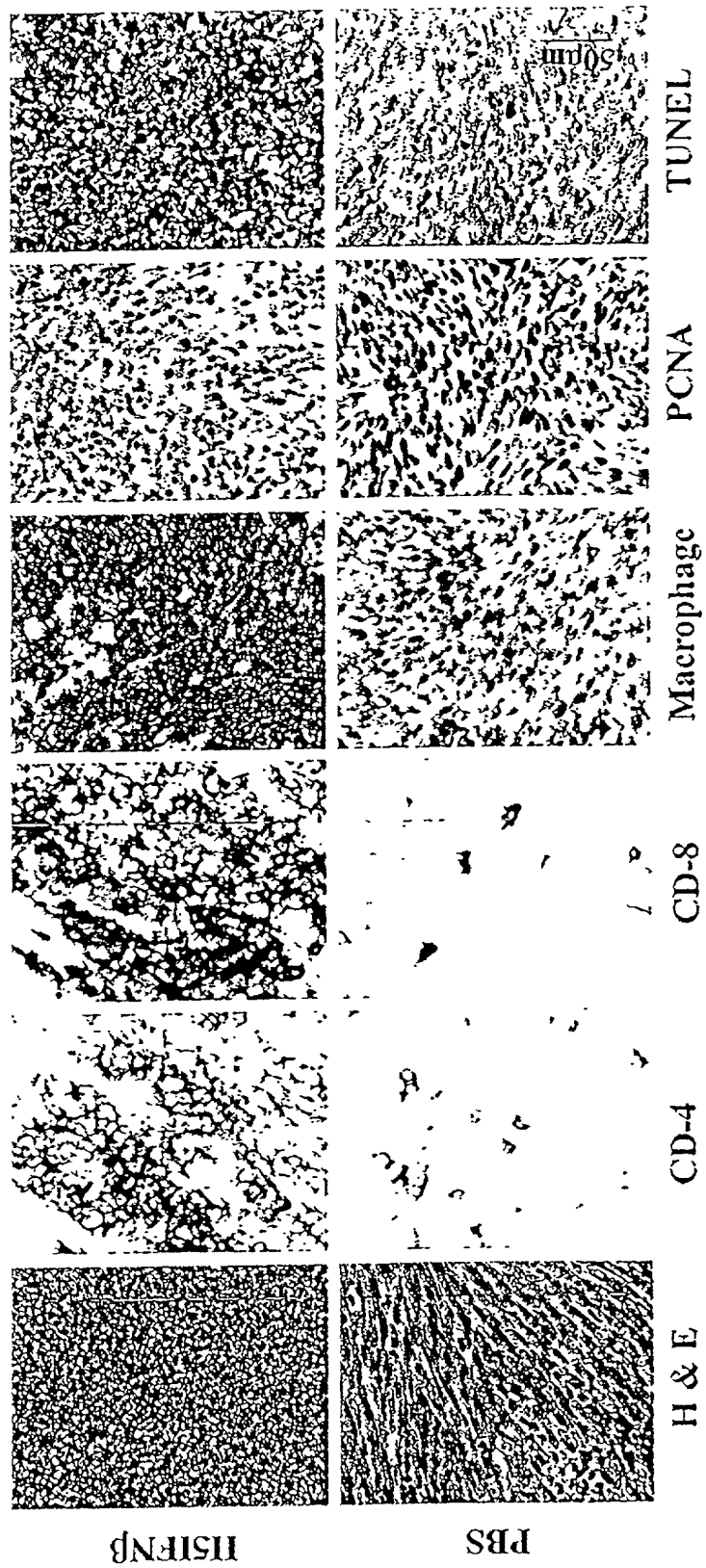


FIG. 11

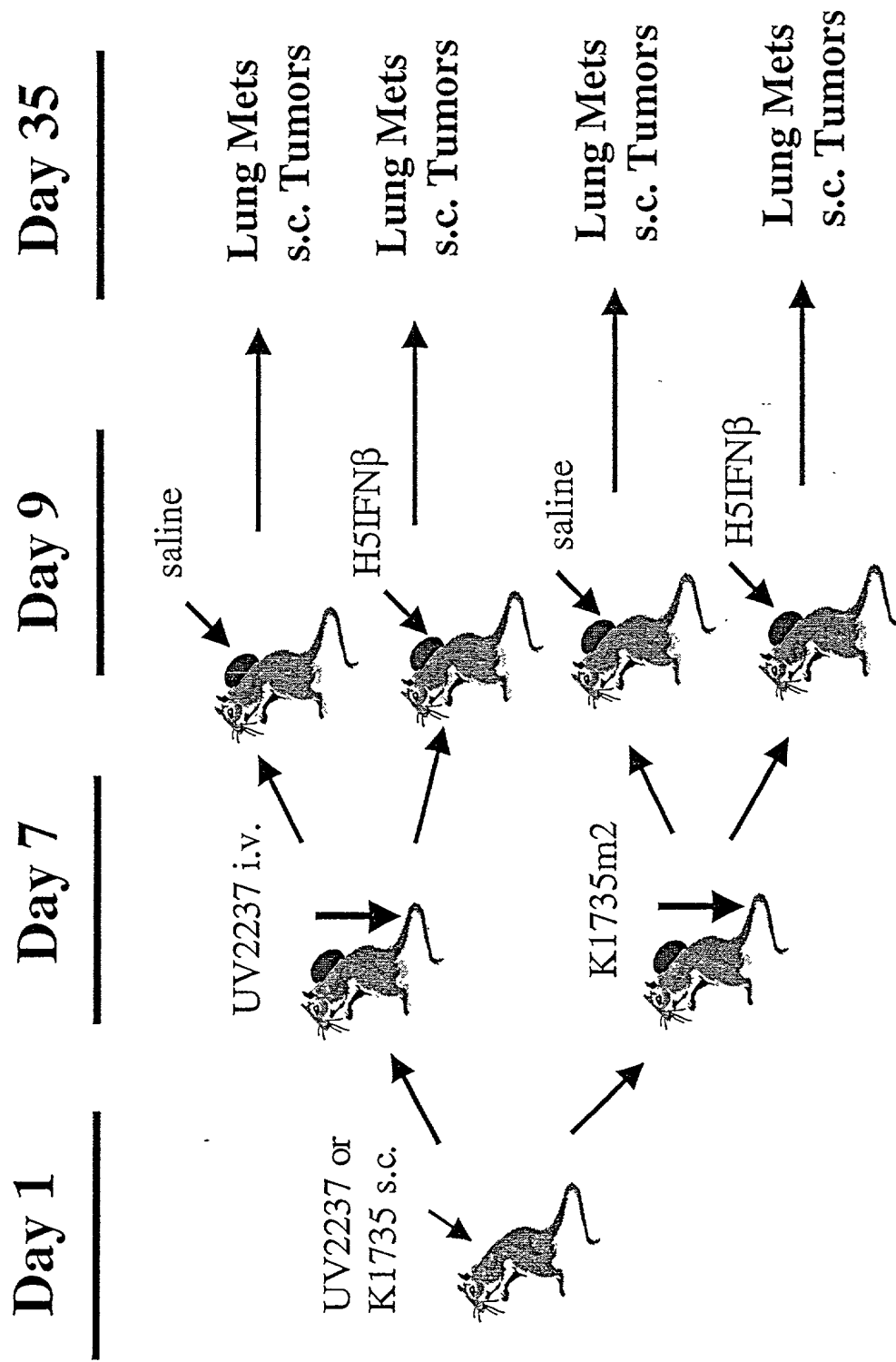


FIG. 12

Treatment of Subcutaneous Tumors		Lung Metastasis Median (Range)	
Tumors	Treatment Results	UV2237m	K1735
UV2237m	Saline Progression	44(8-79)	>200(140->200)
UV2237m	H5IFNb Regression	0(All)*	>200(5->200)
K1735	Saline Progression	120(74-178)	92(44-152)
K1735	H5IFNb Regression	121(14-131)	0(All)*

*P<0.001, N=5, one of two representative experiments is shown.

UV2237m or K1735m2 cells were inoculated s.c. into C3H/HeN mice, when tumors were 4 mm in diameter, the mice were injected i.v. with either UV2237m or K1735m2 cells, 2 days later, the s.c. tumors were injected with saline or lyophilized H5IFNβ(2x10⁶ cells-equivalent) (one injection for UV2237, 2 injections at 1wk interval for K1735m2). The diameter of s.c. tumors was determined every 5 days. The mice were killed and the number of lung metastases was counted 28 days after i.v. injection of the tumor cells.

Induction of specific tumor immunity in C3H mice cured of UV2237m or K1735m2 primary subcutaneous tumors

Group	s.c. Challenge		i.v. Challenge			
	Tumor Size (mm)		UV2237m		K1735m2	
	UV2237m	K1735m2	Lung Met. Med. (Range)	Lung Weight (mg,mean±SD)	Lung Met. Med. (Range)	Lung Weight (mg,mean±SD)
UV2237-cured	0*	9.2±5.3	0(0-0)*	242 ±31	191(107->200)	770 ±306
K1735-cured	6.0±4.3	0*	140(84->200)	847 ±230	0(0-0)*	228 ±22
Control	12.6 ±1.3	15.3 ±3.0	167(93->200)	898 ±227	>200(all>200)	1079 ±110

*:P<0.001, N=10

Established s.c. UV2237m or K1735m2 tumors in C3H/HeN mice were cured by intratumoral injections of lyophilized H5IFNβ (one injection for UV2237m, two injections at 1wk interval for K1735m2). 2 months later after disappearance of s.c. tumors, the cured mice were challenged either s.c. or i.v. with either UV2237m or K1735m2 cells. s.c. tumor sizes were measured 2 weeks later after inoculation. The i.v. challenged mice were killed 4 weeks later, the lungs were weighed and fixed in Bouin's solution and metastatic nodules were counted under a dissecting microscope.

FIG. 14

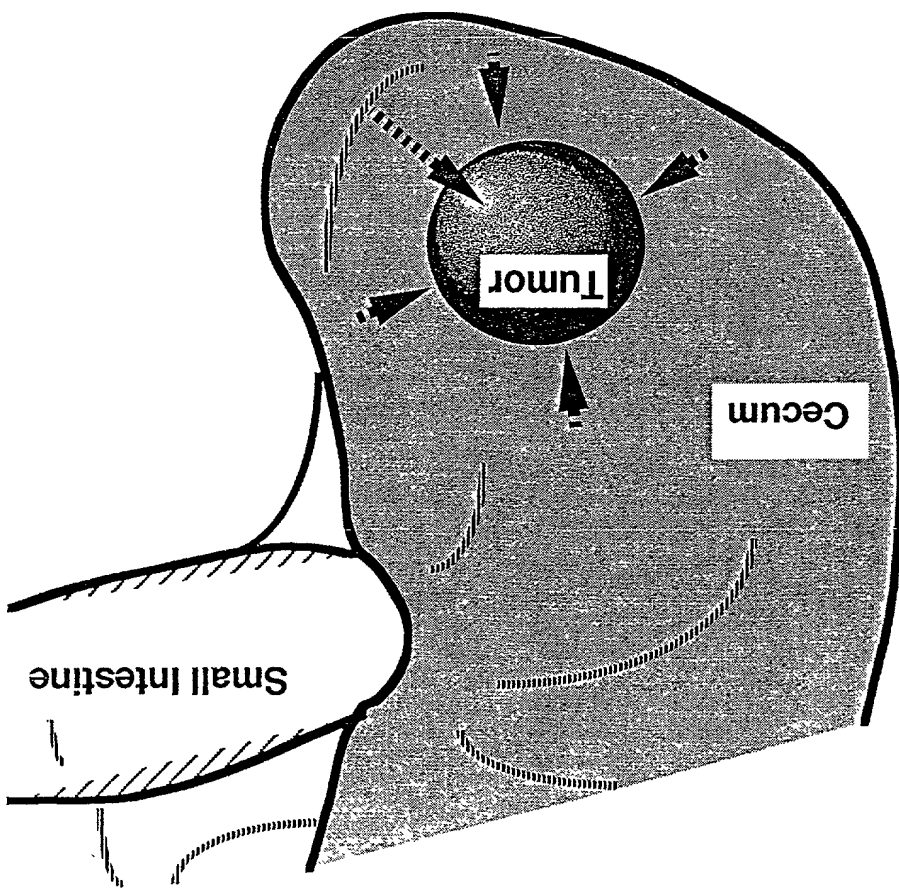


FIG. 15

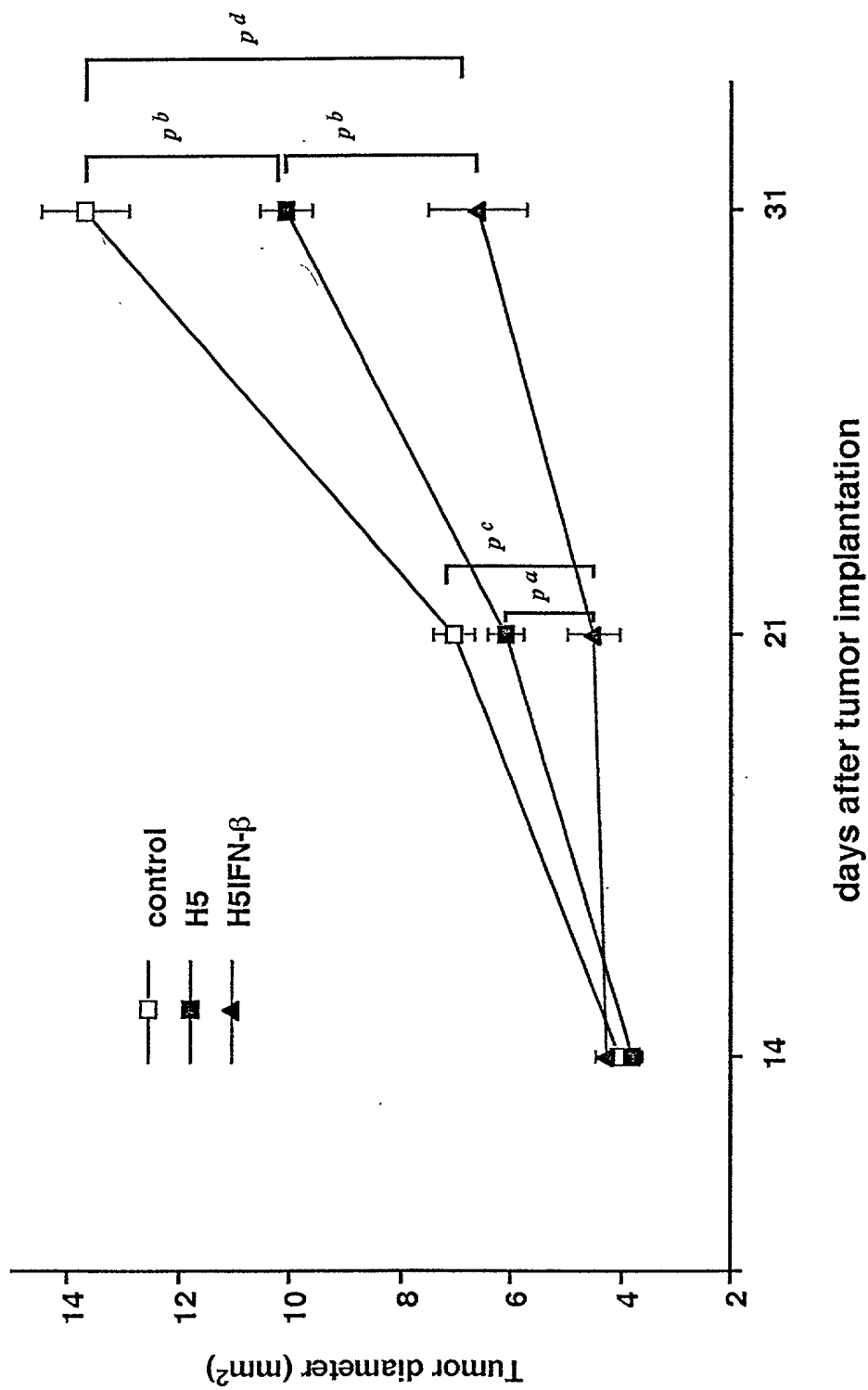


FIG. 16

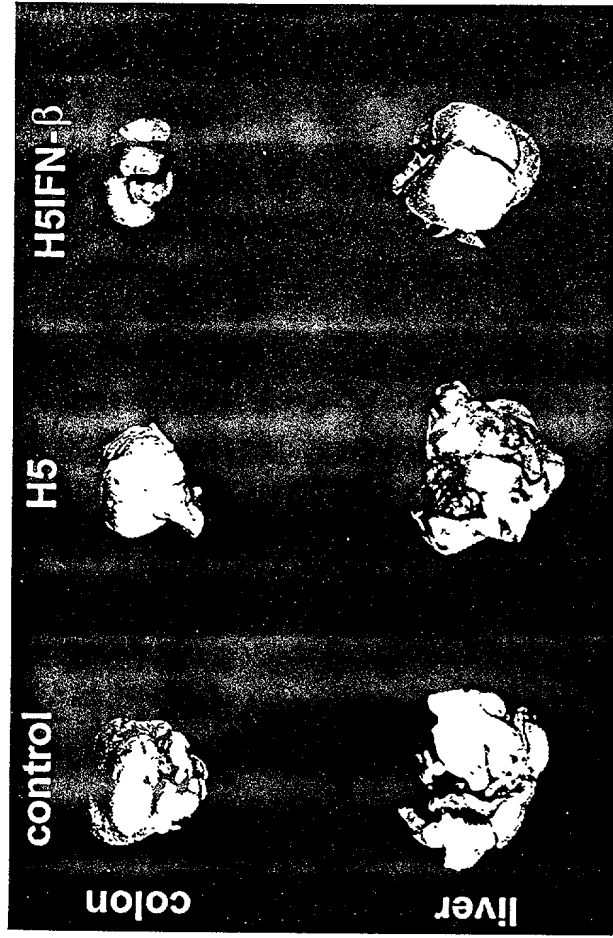


FIG. 17

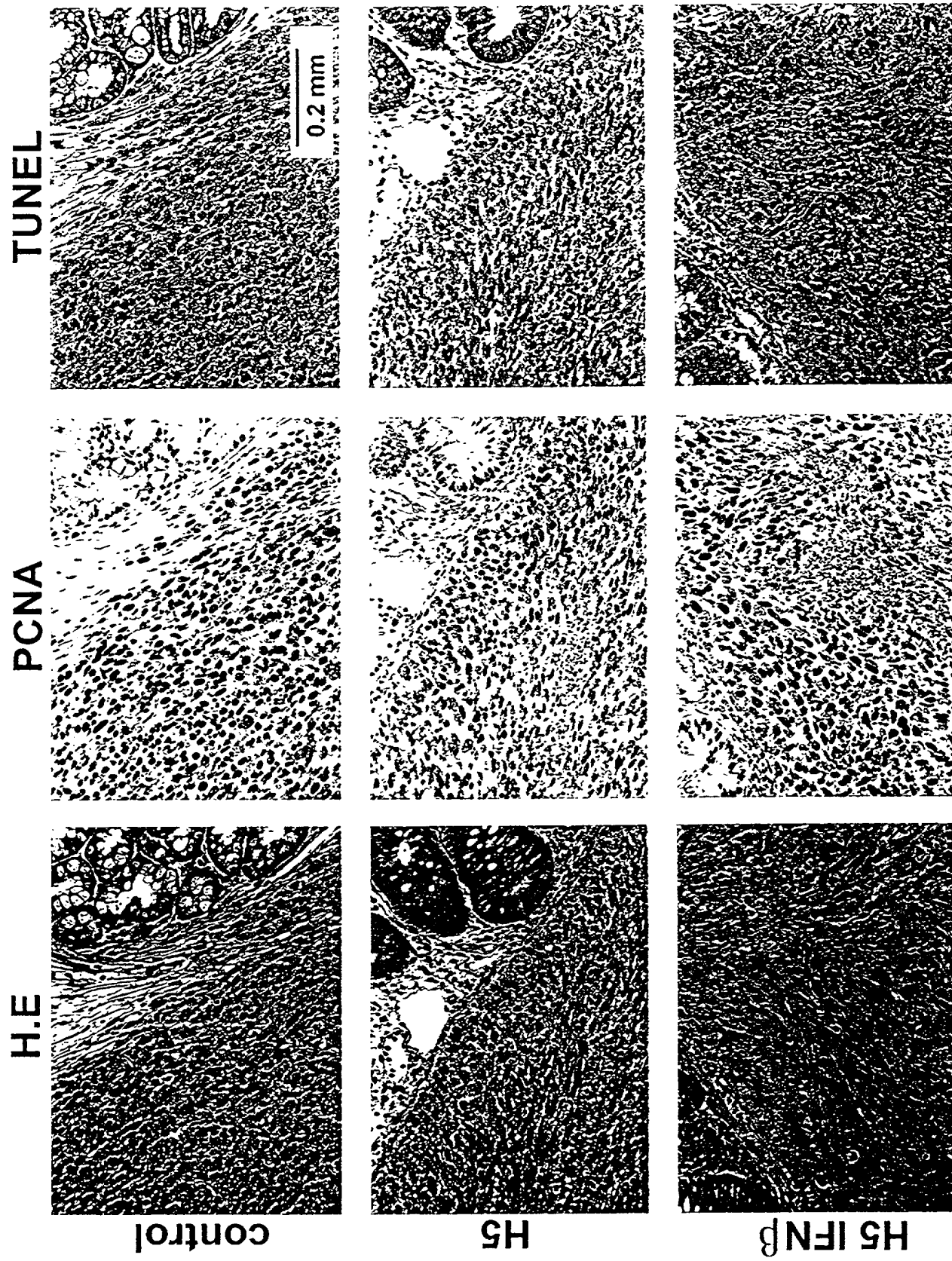


FIG. 18

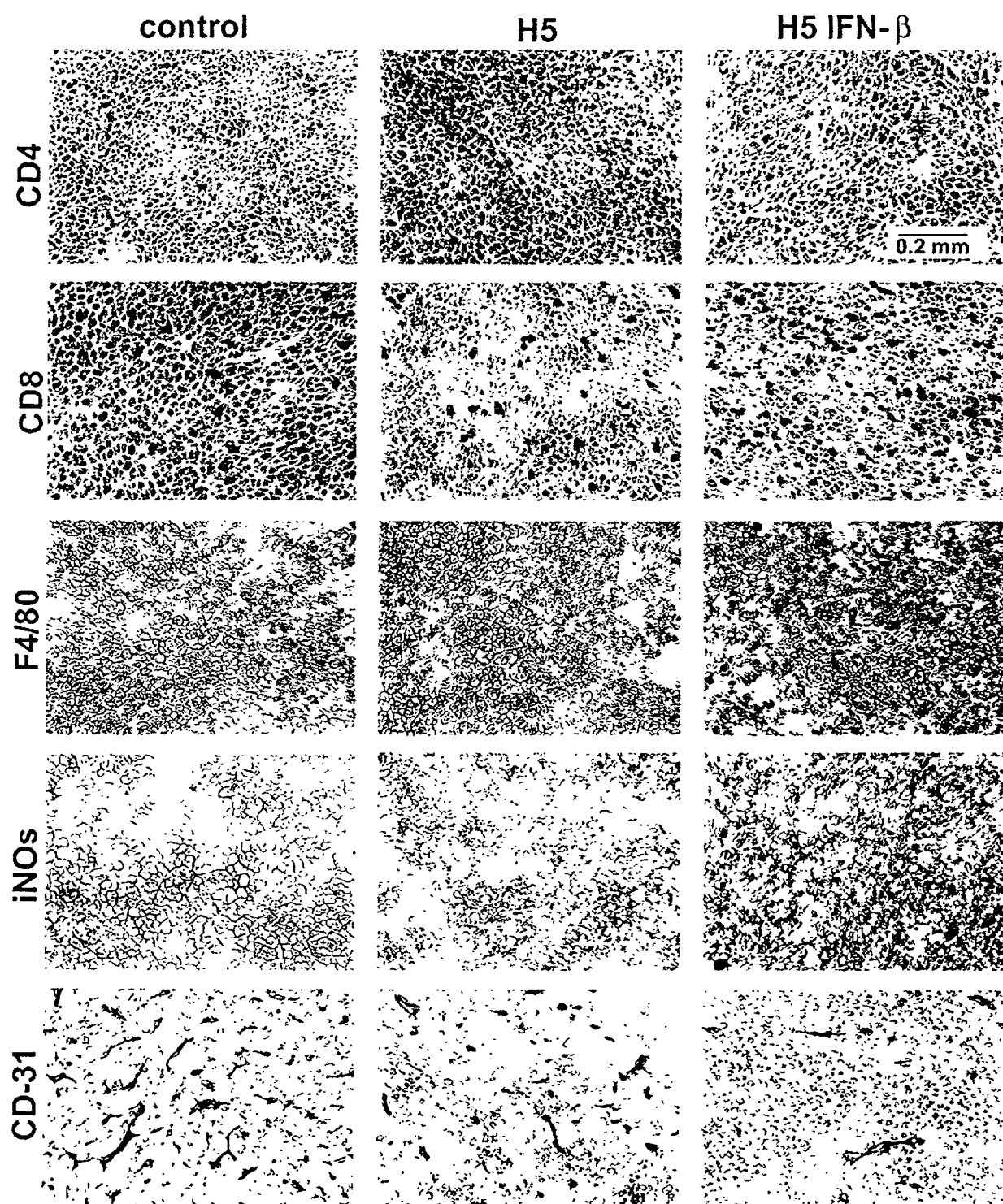


FIG. 19

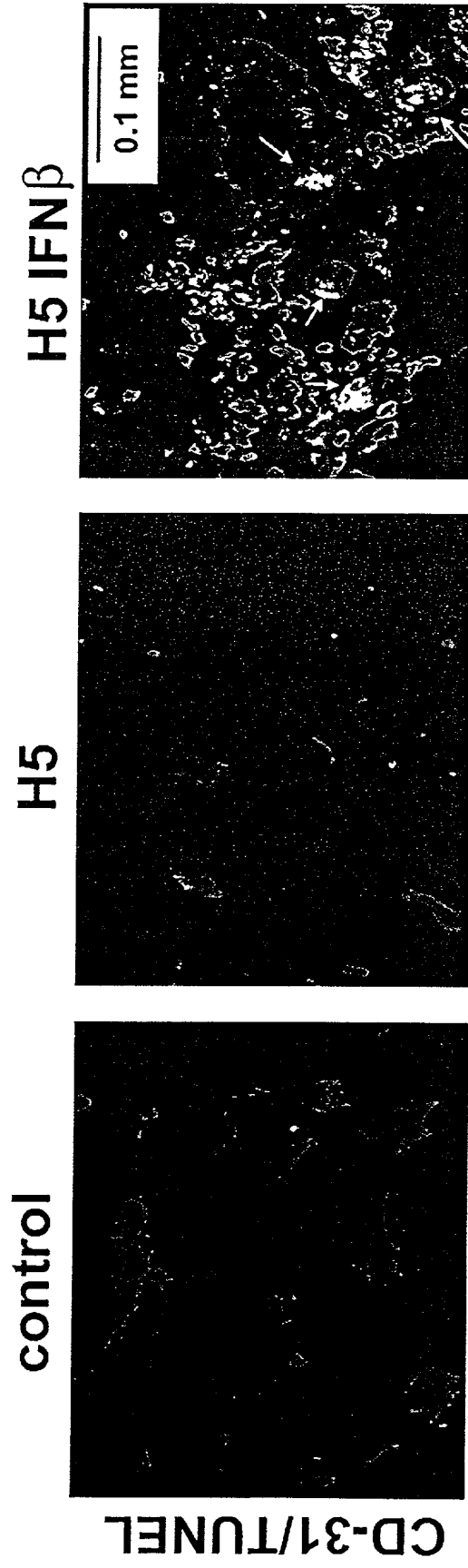
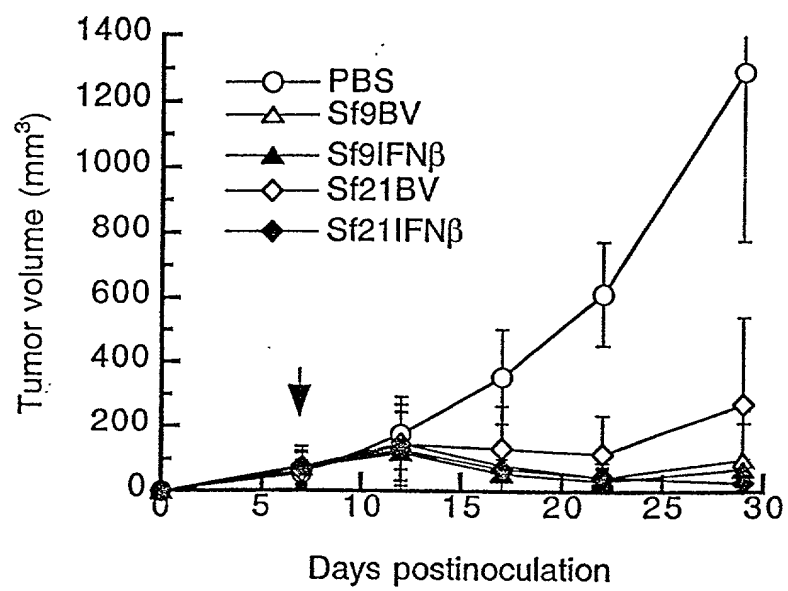


FIG. 20



n=7

▼: one intraslesional injection of insect cells

FIG. 21

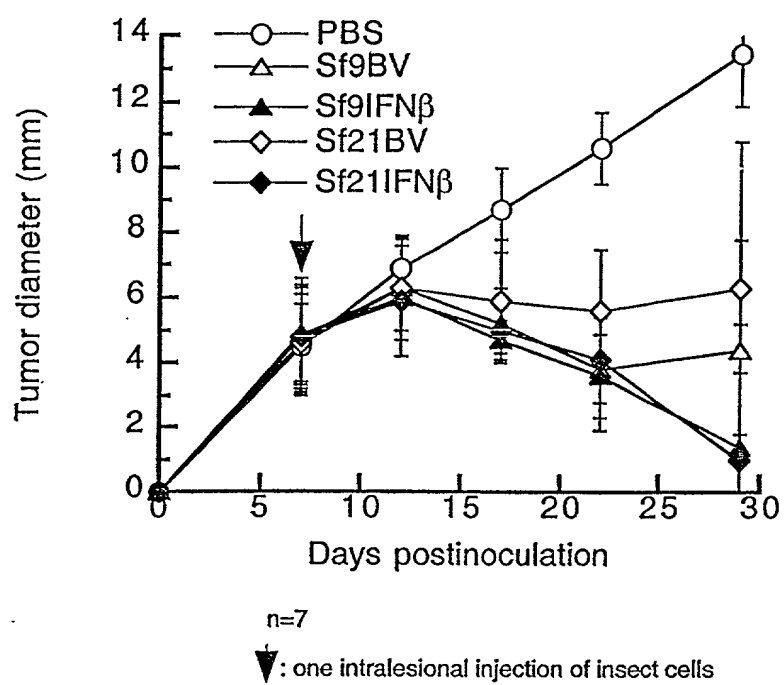
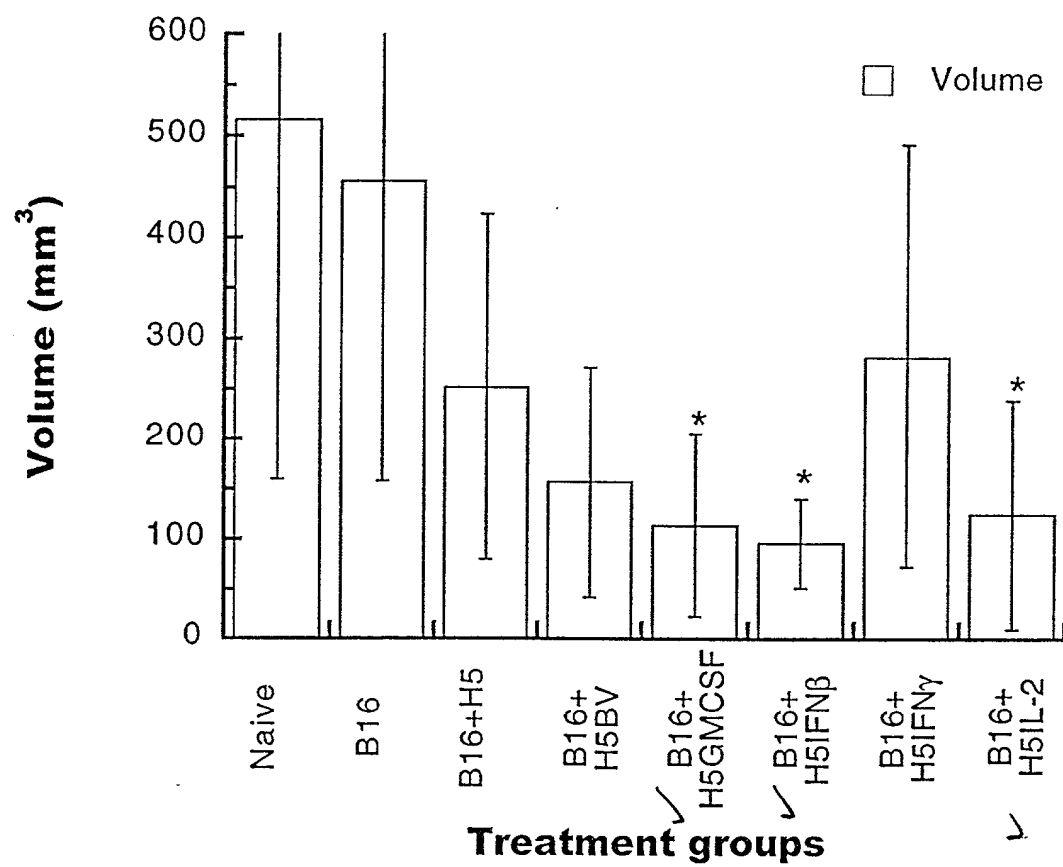
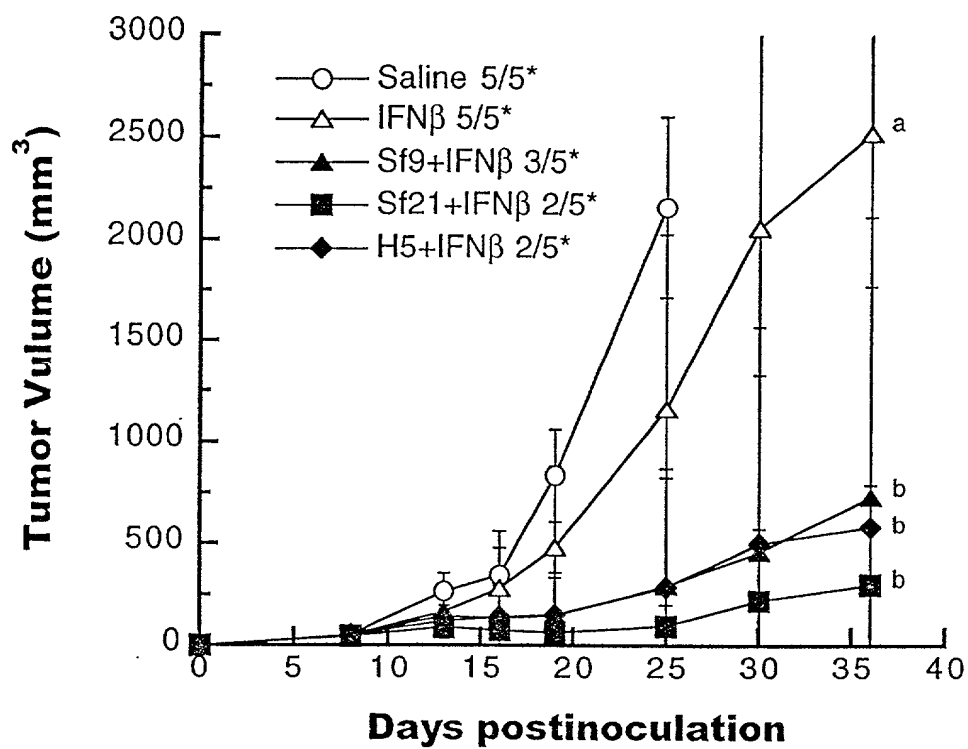


FIG. 22



*: $P < 0.05$, $N = 5$

FIG. 23



*: Tumor incidence
a: P>0.05 compared with saline group
b: P<0.01 compared with saline group

FIG. 24